



**Product:** [4I20ULV](#)

Life Cycle Status: Capability

Security & Sound, 2 Conductor 0.5mm2 BC, LSZH, B2ca

**Product Description**

Security & Commercial Audio Cable, 2-0.5mm2 solid bare copper conductors with Low Smoke Zero Halogen insulation, LSZH jacket with ripcord, CPR B2ca

**Technical Specifications**

**Product Overview**

Suitable Applications:	Intercom/PA Systems, Sound/Audio Systems, Control Systems
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**Physical Characteristics (Overall)**

Conductor			
Stranding	Material	Nominal Diameter	No. of Pairs
7x28	BC - Bare Copper	0.96 mm	1
Conductor Count:		2	
Total Number of Pairs:		1	

Insulation			
Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.40 mm	0.05 mm	0.3 mm

**Outer Shield**

Material
No Shield

**Outer Jacket**

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	4.6 mm	0.9 mm	Yes

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR
36 Ohm/km

**Capacitance**

Nom. Capacitance Conductor to Conductor
80 pF/m

**Current**

Element
Conductor(s)

**Voltage**

Voltage Rating [V]
300 V

**Temperature Range**

Storage Temperature Range:	-30°C to +70°C
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Mechanical Characteristics

Max. Pull Tension:	50 N
Min. Bend Radius During Installation:	46 mm
Min Setting Radius:	23 mm

Standards

CPR Euroclass:	B2ca-s1,d1,a1
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Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
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Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Product Notes

Notes:	This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 12km for the first order. This product will have Grey as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 4300ULW plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.6 Revision Date: 06-19-2025
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